



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
2170 SW Canal Street
Stuart, FL 34997

REPLY TO
ATTENTION OF

JUN 01 2007

Regulatory Division
Special Projects and Enforcement Branch
SAJ-2007-1463 (NPR-AAZ)

Florida Department of Transportation, District 4
Attn: Ellen Daniel
3400 West Commercial Boulevard
Fort Lauderdale, FL 33309

Dear Ms. Daniel:

Reference is made to the application received on March 5, 2007, for a Department of the Army permit to mill and resurface State Road 510 from east of U.S. Highway 1 to west of State Road 1A1A. The project includes the construction of a pedestrian sidewalk in the upland portion of the roadway as well as on three of the four bridges over the Indian River. The sidewalk would not be constructed on the bridge over the Intracoastal Waterway, Bridge Number 880051. The application has been assigned file number SAJ-2007-1463. The project is located along State Road 510 over the Indian River in Sections 26, 27, and 28, Township 31 South, Range 39 East, Indian River County, Florida.

The project as proposed will not require a Department of the Army permit in accordance with Section 10 of the Rivers and Harbors Act of 1899 as it is considered a bridge and, therefore, is under the regulatory jurisdiction of the U.S. Coast Guard. Furthermore, a permit will not be required in accordance with Section 404 of the Clean Water Act as it will not involve the discharge of dredged or fill material into waters of the United States. Provided the work is done in accordance with the enclosed drawings, Department of the Army authorization will not be required.

A U.S. Army Corps of Engineers' (Corps) "Basis for Jurisdiction" form is enclosed for your information and file. This letter contains an approved jurisdictional determination for your permit application. If you object to this decision, you may request an administrative appeal under Corps' regulations at 33 CFR Part 331. Enclosed you will find a Notification of Appeal Process fact sheet and Request for Appeal (RFA) form. If you request to appeal this decision, you must submit a completed RFA

form to the South Atlantic Division Office at the following address:

Mr. Michael F. Bell
South Atlantic Division
U.S. Army Corps of Engineers
CESAD-CM-CO-R, Room 9M15
60 Forsyth St., SW.
Atlanta, Georgia 30303-8801.

Mr. Bell can be reached by telephone number at 404-562-5137, or by facsimile at 404-562-5138.

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR Part 331.5, and that it has been received by the Division office within 60 days of the date of the RFA. Should you decide to submit an RFA form, it must be received at the above address by August 4, 2007. It is not necessary to submit an RFA form to the Division office, if you do not object to the decision in this letter.

This determination has been conducted to identify the limits of the Corps Clean Water Act jurisdiction for the particular site identified in this request. This determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985, as amended. If you or your tenant are U.S. Department of Agriculture (USDA) program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service prior to starting work. Please be advised this determination reflects current policy and regulations and is valid for a period of no longer than 5 years from the date of this letter unless new information warrants a revision of the determination before the expiration date. If after the 5-year period, the Corps has not specifically revalidated this determination, it will automatically expire. Any reliance upon this determination beyond the expiration date may lead to possible violation of current Federal laws and/or regulation.

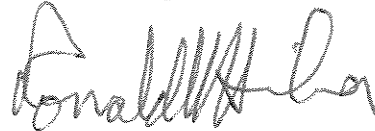
Additionally, your project site may contain species protected by the Endangered Species Act (ESA) of 1972, as amended. You should contact your local U.S. Fish and Wildlife Service (FWS) office to determine if Federally listed species or their habitat

are present on your project site. If it is determined that Federally listed species may be affected by the proposed project, authorization for "incidental take" may be required. FWS offices can be contacted by the following telephone numbers: Jacksonville at 904-232-2580, Panama City at 850-763-2177, St. Petersburg at 727-570-5398, or Vero Beach at 772-562-3909.

This letter does not obviate the requirement to obtain any other Federal, State, or local permits that may be necessary for your project. Should you have any questions, please contact Alisa Zarbo by email at Alisa.A.Zarbo@saj02.usace.army.mil, at the letterhead address, or by telephone at 772-219-8418.

Thank you for your cooperation with our permit program.

Sincerely,

A handwritten signature in dark ink, appearing to read "Loren M. Mason". The signature is stylized with a large initial "L" and "M".

Loren M. Mason
Chief, Special Projects and
Enforcement Branch

Copy to:
U.S. Coast Guard, Miami, FL

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: FDOT, District 4	File Number: SAJ-2007-1463	Date: 6-4-07
Attached is:	See Section below	
<input type="checkbox"/>	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A
<input type="checkbox"/>	PROFFERED PERMIT (Standard Permit or Letter of permission)	B
<input type="checkbox"/>	PERMIT DENIAL	C
<input checked="" type="checkbox"/>	APPROVED JURISDICTIONAL DETERMINATION	D
<input type="checkbox"/>	PRELIMINARY JURISDICTIONAL DETERMINATION	E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <http://usace.army.mil/inet/functions/cw/ceewo/reg> or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- *ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.*
- *OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.*

B: PROFFERED PERMIT: You may accept or appeal the permit

- *ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.*
- *APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.*

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- *ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.*
- *APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.*

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION

If you have questions regarding this decision and/or the appeal process you may contact:
Project Manager as noted in letter

If you only have questions regarding the appeal process you may also contact:
Michael Bell
404-562-5137

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

Signature of appellant or agent.

Date:

Telephone number:

JURISDICTIONAL DETERMINATION

U.S. Army Corps of Engineers

Revised 8/13/04

DISTRICT OFFICE: CESAJ-RD-P

FILE NUMBER: SAJ-2007-1463

PROJECT LOCATION INFORMATION:

State: FL

County: Indian River

Center coordinates of site (latitude/longitude): Bridge No 880052, 880051, 880050, 880053 over ICWW

Approximate size of area (parcel) reviewed, including uplands: 58.165

Name of nearest waterway: Intracoastal Waterway

Name of watershed: Everglades

JURISDICTIONAL DETERMINATION

Completed: Desktop determination



Date: 6-1-07

Site visit(s)



Date(s):

Jurisdictional Determination (JD):

☐ Preliminary JD - Based on available information, ☐ there appear to be (or) ☐ there appear to be no "waters of the United States" and/or "navigable waters of the United States" on the project site. A preliminary JD is not appealable (Reference 33 CFR part 331).

☒ Approved JD - An approved JD is an appealable action (Reference 33 CFR part 331).
Check all that apply:

☒ There are "navigable waters of the United States" (as defined by 33 CFR part 329 and associated guidance) within the reviewed area.
Approximate size of jurisdictional area: ICWW.

☒ There are "waters of the United States" (as defined by 33 CFR part 328 and associated guidance) within the reviewed area. Approximate size of jurisdictional area:

☒ There are "isolated, non-navigable, intra-state waters or wetlands" within the reviewed area.



Decision supported by SWANCC/Migratory Bird Rule Information Sheet for Determination of No Jurisdiction.

BASIS OF JURISDICTIONAL DETERMINATION:

A. Waters defined under 33 CFR part 329 as "navigable waters of the United States":

☒ The presence of waters that are subject to the ebb and flow of the tide and/or are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

B. Waters defined under 33 CFR part 328.3(a) as "waters of the United States":

☐ (1) The presence of waters, which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide.

☐ (2) The presence of interstate waters including interstate wetlands¹.

☐ (3) The presence of other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, the use, degradation or destruction of which could affect interstate commerce including any such waters (check all that apply):

☐ (i) which are or could be used by interstate or foreign travelers for recreational or other purposes.

☐ (ii) from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.

☐ (iii) which are or could be used for industrial purposes by industries in interstate commerce.

☐ (4) Impoundments of waters otherwise defined as waters of the US.

☐ (5) The presence of a tributary to a water identified in (1) - (4) above.

☐ (6) The presence of territorial seas.

☐ (7) The presence of wetlands adjacent² to other waters of the US, except for those wetlands adjacent to other wetlands.

Rationale for the Basis of Jurisdictional Determination (applies to any boxes checked above). *If the jurisdictional water or wetland is not itself a navigable water of the United States, describe connection(s) to the downstream navigable waters. If B(1) or B(3) is used as the Basis of Jurisdiction, document navigability and/or interstate commerce connection (i.e., discuss site conditions, including why the waterbody is navigable and/or how the destruction of the waterbody could affect interstate or foreign commerce). If B(2, 4, 5 or 6) is used as the Basis of Jurisdiction, document the rationale used to make the determination. If B(7) is used as the Basis of Jurisdiction, document the rationale used to make adjacency determination: The work proposed is associated with the bridge and therefore is jurisdiction of the US Coast Guard. A copy of this determination is being sent to the US Coast Guard office in Miami.*

Lateral Extent of Jurisdiction: (Reference: 33 CFR parts 328 and 329)☒ Ordinary High Water Mark indicated by:

- ☐ clear, natural line impressed on the bank
- ☐ the presence of litter and debris
- ☐ changes in the character of soil
- ☐ destruction of terrestrial vegetation
- ☐ shelving
- ☐ other:

☒ High Tide Line indicated by:

- ☐ oil or scum line along shore objects
- ☐ fine shell or debris deposits (foreshore)
- ☐ physical markings/characteristics
- ☐ tidal gages
- ☐ other:

☒ Mean High Water Mark indicated by:

- ☐ survey to available datum; ☐ physical markings; ☐ vegetation lines/changes in vegetation types.

☒ Wetland boundaries, as shown on the attached wetland delineation map and/or in a delineation report prepared by:**Basis For Not Asserting Jurisdiction:**

- ☒ The reviewed area consists entirely of uplands.
- ☒ Unable to confirm the presence of waters in 33 CFR part 328(a)(1, 2, or 4-7).
- ☒ Headquarters declined to approve jurisdiction on the basis of 33 CFR part 328.3(a)(3).
- ☒ The Corps has made a case-specific determination that the following waters present on the site are not Waters of the United States:
 - ☐ Waste treatment systems, including treatment ponds or lagoons, pursuant to 33 CFR part 328.3.
 - ☐ Artificially irrigated areas, which would revert to upland if the irrigation ceased.
 - ☐ Artificial lakes and ponds created by excavating and/or diking dry land to collect and retain water and which are used exclusively for such purposes as stock watering, irrigation, settling basins, or rice growing.
 - ☐ Artificial reflecting or swimming pools or other small ornamental bodies of water created by excavating and/or diking dry land to retain water for primarily aesthetic reasons.
 - ☐ Water-filled depressions created in dry land incidental to construction activity and pits excavated in dry land for the purpose of obtaining fill, sand, or gravel unless and until the construction or excavation operation is abandoned and the resulting body of water meets the definition of waters of the United States found at 33 CFR 328.3(a).
 - ☐ Isolated, intrastate wetland with no nexus to interstate commerce.
 - ☐ Prior converted cropland, as determined by the Natural Resources Conservation Service. Explain rationale:
 - ☐ Non-tidal drainage or irrigation ditches excavated on dry land. Explain rationale:
 - ☒ Other (explain): No fill within the wetlands or waters of the United States. Bridge work falls within the jurisdiction of the Coast Guard.

DATA REVIEWED FOR JURISDICTIONAL DETERMINATION (mark all that apply):

- ☒ Maps, plans, plots or plat submitted by or on behalf of the applicant.
- ☒ Data sheets prepared/submitted by or on behalf of the applicant.
 - ☐ This office concurs with the delineation report, dated, prepared by (company):
 - ☐ This office does not concur with the delineation report, dated, prepared by (company):
- ☒ Data sheets prepared by the Corps.
- ☒ Corps' navigable waters' studies:
- ☒ U.S. Geological Survey Hydrologic Atlas:
- ☒ U.S. Geological Survey 7.5 Minute Topographic maps:
- ☒ U.S. Geological Survey 7.5 Minute Historic quadrangles:
- ☒ U.S. Geological Survey 15 Minute Historic quadrangles:
- ☒ USDA Natural Resources Conservation Service Soil Survey:
- ☒ National wetlands inventory maps:
- ☒ State/Local wetland inventory maps:
- ☒ FEMA/FIRM maps (Map Name & Date):
- ☒ 100-year Floodplain Elevation is: (NGVD)
- ☒ Aerial Photographs (Name & Date):
- ☒ Other photographs (Date):
- ☒ Advanced Identification Wetland maps:
- ☒ Site visit/determination conducted on:
- ☒ Applicable/supporting case law:
- ☒ Other information (please specify): ERA Online maps/aerials

¹Wetlands are identified and delineated using the methods and criteria established in the Corps Wetland Delineation Manual (87 Manual) (i.e., occurrence of hydrophytic vegetation, hydric soils and wetland hydrology).

²The term "adjacent" means bordering, contiguous, or neighboring. Wetlands separated from other waters of the U.S. by man-made dikes or barriers, natural river berms, beach dunes, and the like are also adjacent.

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
LANDSCAPE PLANS
STRUCTURE PLANS

A DETAILED INDEX APPEARS ON THE
KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

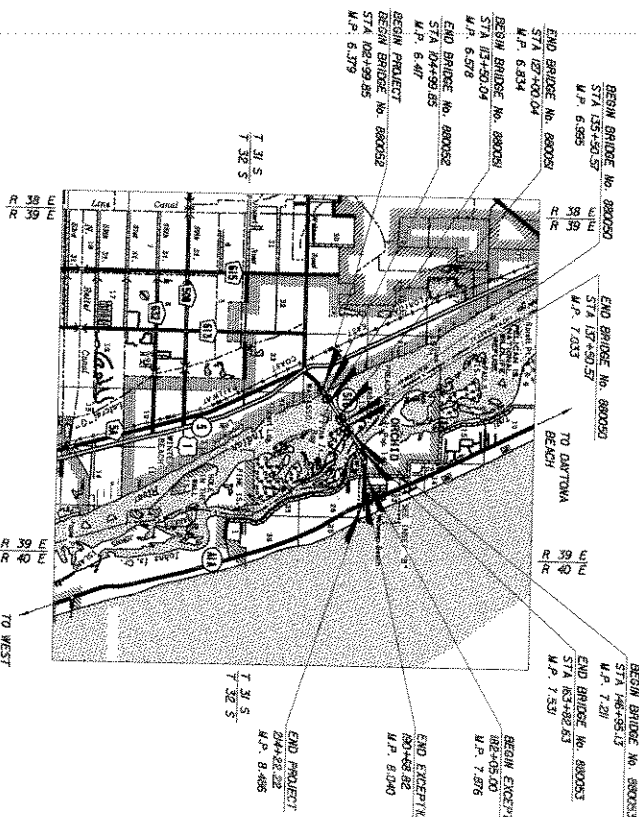
SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	NOTES TO REVIEWERS
3	SUMMARY OF PAY ITEMS
4	PROJECT NETWORK CONTROL
5	TYPICAL SECTION
6	GENERAL NOTES
7	SUMMARY OF QUANTITIES
8	ROADWAY PLAN
9	PAVEMENT CROSS SECTIONS
10	TRAFFIC CONTROL PLANS

PREVAILING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED 2005,
AND STANDARD SPECIFICATIONS FOR ROAD AND
BRIDGE CONSTRUCTION DATED 2004,
AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: C/20/07
For Design Standards modifications go to the following Web site:
<http://www.dot.state.tx.us/interagency/DesignStandards/index2.htm>

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
CONTRACT PLANS

FINANCIAL PROJECT ID 413803-1-52-01
INDIAN RIVER COUNTY (88050)
STATE ROAD NO. 510 (MABASSO RD)



LENGTH OF PROJECT	
LINEAR FEET	MILES
ROADWAY	6,821.05
BRIDGES	3,437.50
NET LENGTH OF PROJECT	0,631
EXCEPTIONS	10,256.55
	863.82
GROSS LENGTH OF PROJECT	11,122.37
	2.107

FDOT PROJECT MANAGER: JAMES E. SKULLY, PE

RECEIVED

FEB 27 2007
40-061-110067-1

Palm Bay Service Center

[illegible]

PLANS PREPARED BY:

PLANTS PROPOSED FOR:

ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:
REYNALDO R. RAMOS, P.E.
EARTH TECH
3750 N.W. 87TH AVENUE, SUITE 300
MIAMI, FL 33188

CERTIFICATE OF AUTHORIZATION NO. 312
VENDOR ID NO.: F-536632-208
CONTRACT NO.: 666002

HAVE CHANGED ONE TO RESUME 7834.

FOOTNOTES

72. VANDER BEEK, R. R. H. A. C. 4174

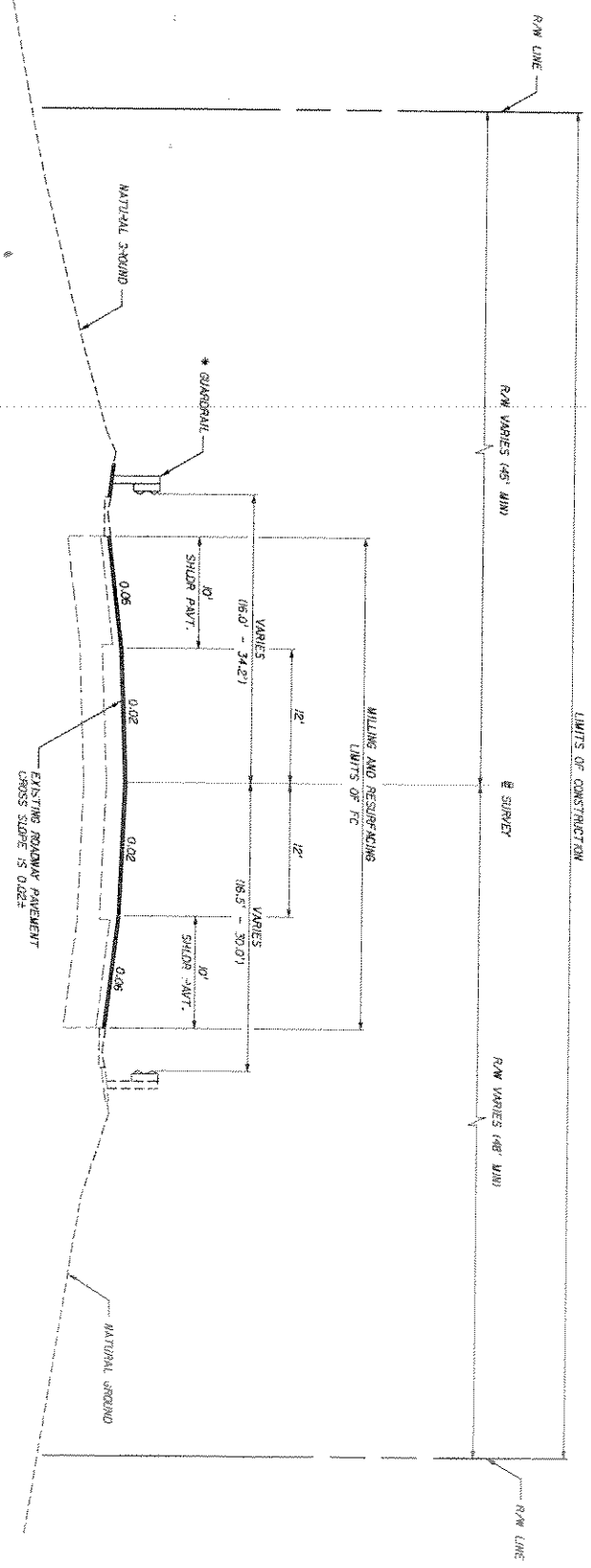
317

FEAR
SEE
NO.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 81(G)(5)(3) OR, F.A.C.

FOR PERMITTING PURPOSES ONLY

NOT FOR CONSTRUCTION
PRELIMINARY AND SUBJECT TO CHANGE



TRAFFIC DATA

YEAR	AAOT
CURRENT 2005	11,200
OPENING 2009	11,200
DESIGN 2009	11,200

DISTRIBUTION K = 0.7 % D = 54.2 % $T_{94} = 5.5 %$
 DESIGN HOUR T = 2.8 h
 DESIGN SPEED = 45 MPH
 POSTED SPEED = 40 MPH

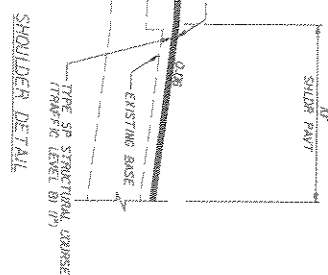
TYPICAL SECTION

@ SR 510
 STA 141+9.58 TO STA 146+95.13
 STA 163+82.63 TO STA 170+55.00

MILLING
 MILL EXISTING ASPHALT CONCRETE PAVEMENT
 (2" AVERAGE DEPTH)
 (NOTE: EXISTING APPROACH SLABS HAVE A 3" ASPHALT OVERLAY)

RESURFACING
 FRICTION COURSE FC-9.5 (1")
 TYPE SP STRUCTURAL COURSE (TRAFFIC LEVEL B1 (1"))

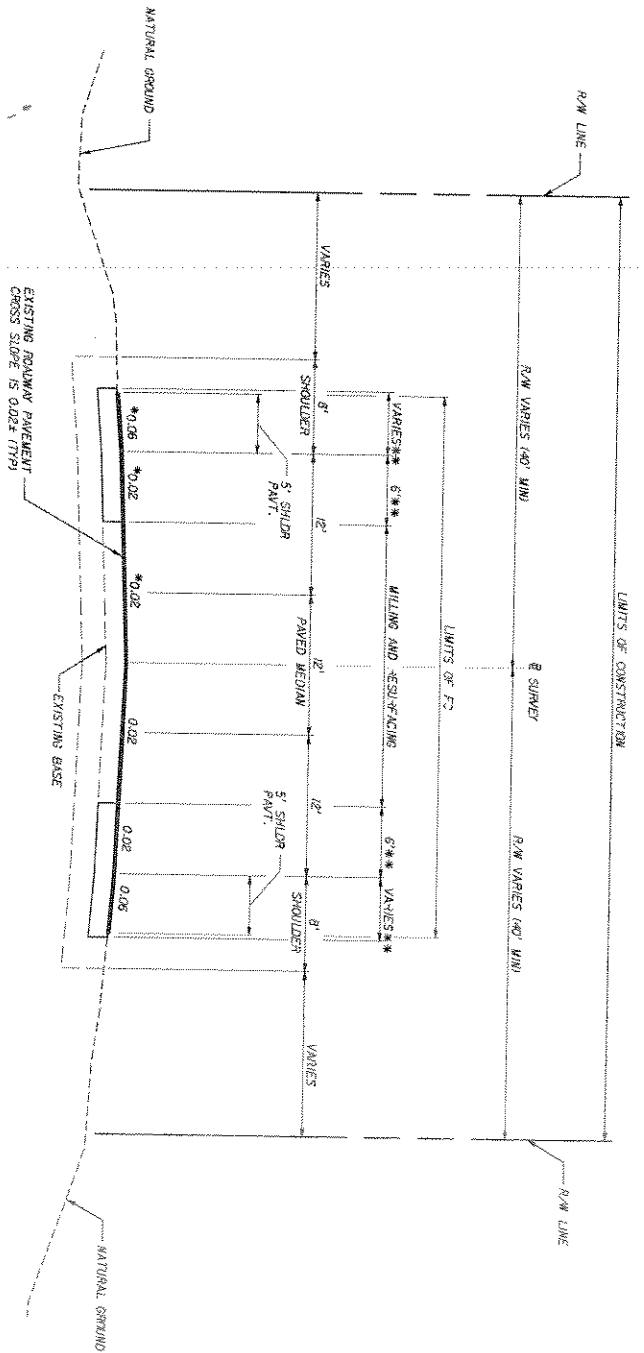
SHOULDER PAVEMENT
 FRICTION COURSE FC-9.5 (1")
 TYPE SP STRUCTURAL COURSE (TRAFFIC LEVEL B1 (1"))



* PROPOSED GLANDRAL FROM STA 163+82.47 TO STA 168+76.82

REVISIONS		DESCRIPTION		DATE		BY	
1							

STATE OF FLORIDA			
DEPARTMENT OF TRANSPORTATION			
ROAD NO.	COUNTY	PROJECT NO.	SHEET NO.
SR 510	INDIAN RIVER	413803-1-52-01	8



TYPICAL SECTION

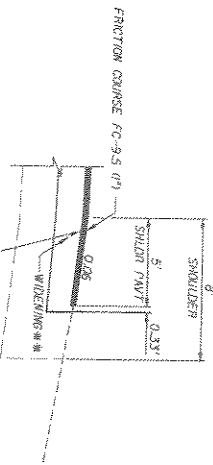
SR 510
 STA 170+55.00 TO STA 182+05.00
 STA 190+68.82 TO STA 213+48.66

TRAFFIC DATA
 YEAR ADOT
 CURRENT 2005 16,200
 OPENING 2009 16,400
 DESIGN 2009 17,400
 DISTRIBUTION $K = 0.7$ $D = 54.2$ $T_d = 5.5$
 DESIGN HOUR $T = 2.0$
 DESIGN SPEED = 45 MPH
 POSTED SPEED = 40 MPH

MILLING
 MILL EXISTING ASPHALT CONCRETE PAVEMENT
 TO AVERAGE DEPTH FROM STA 170+55.00 TO STA 182+05.00
RESURFACING
 TYPE SP STRUCTURAL COURSE TRAFFIC LEVEL B (17)

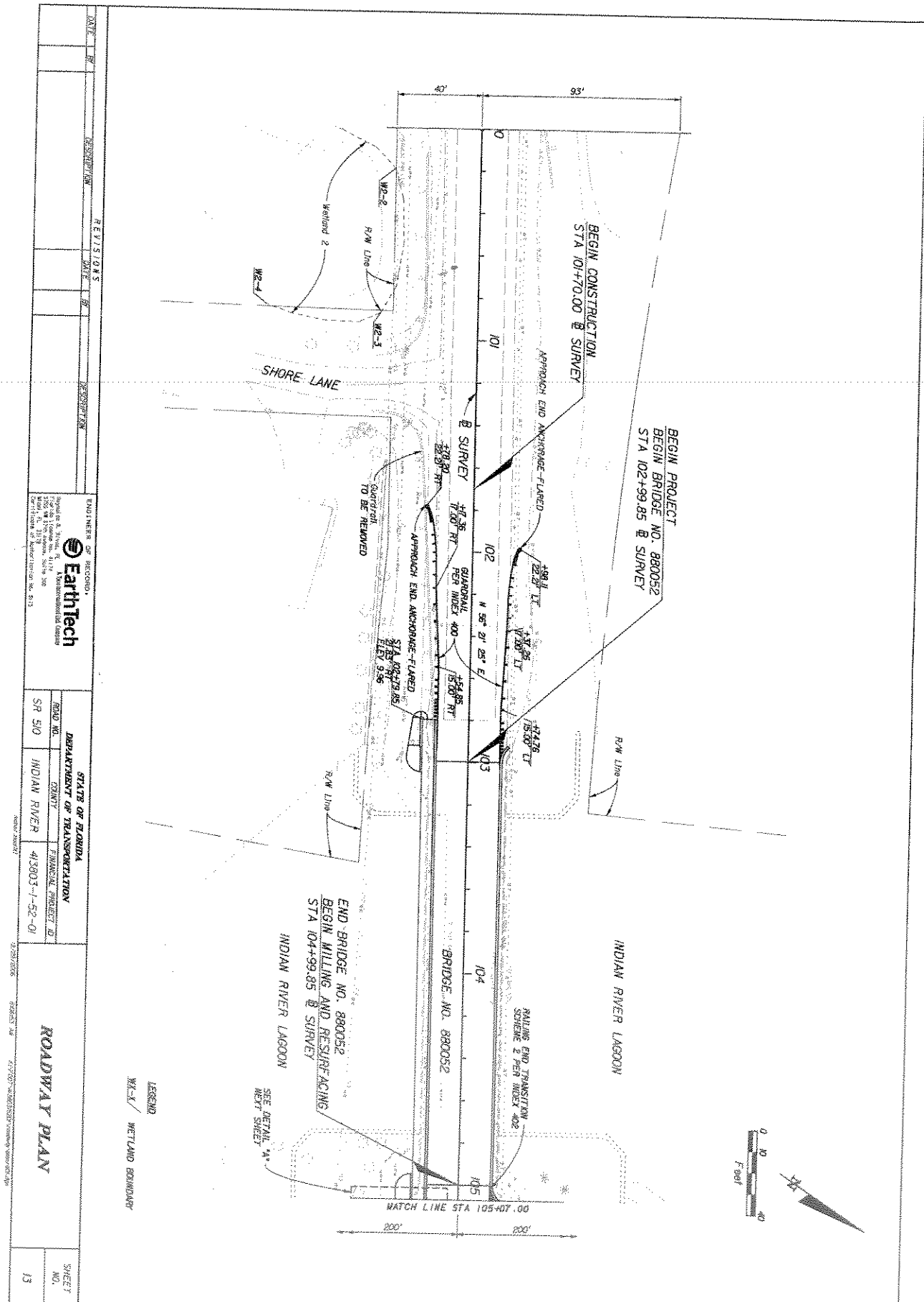
WIDENING AND RECONSTRUCTION
 STA 170+55.00 TO STA 182+05.00
 TYPE SP STRUCTURAL COURSE FC-9.5 (17)
 TYPE SP STRUCTURAL COURSE FC-9.5 (17)
 OPTIONAL BASE GROUP ONE (TYPE B-12.5 OPTION ONLY)

SHOULDER PAVEMENT
 TYPE SP STRUCTURAL COURSE FC-9.5 (17)
 TYPE SP STRUCTURAL COURSE TRAFFIC LEVEL B (17)

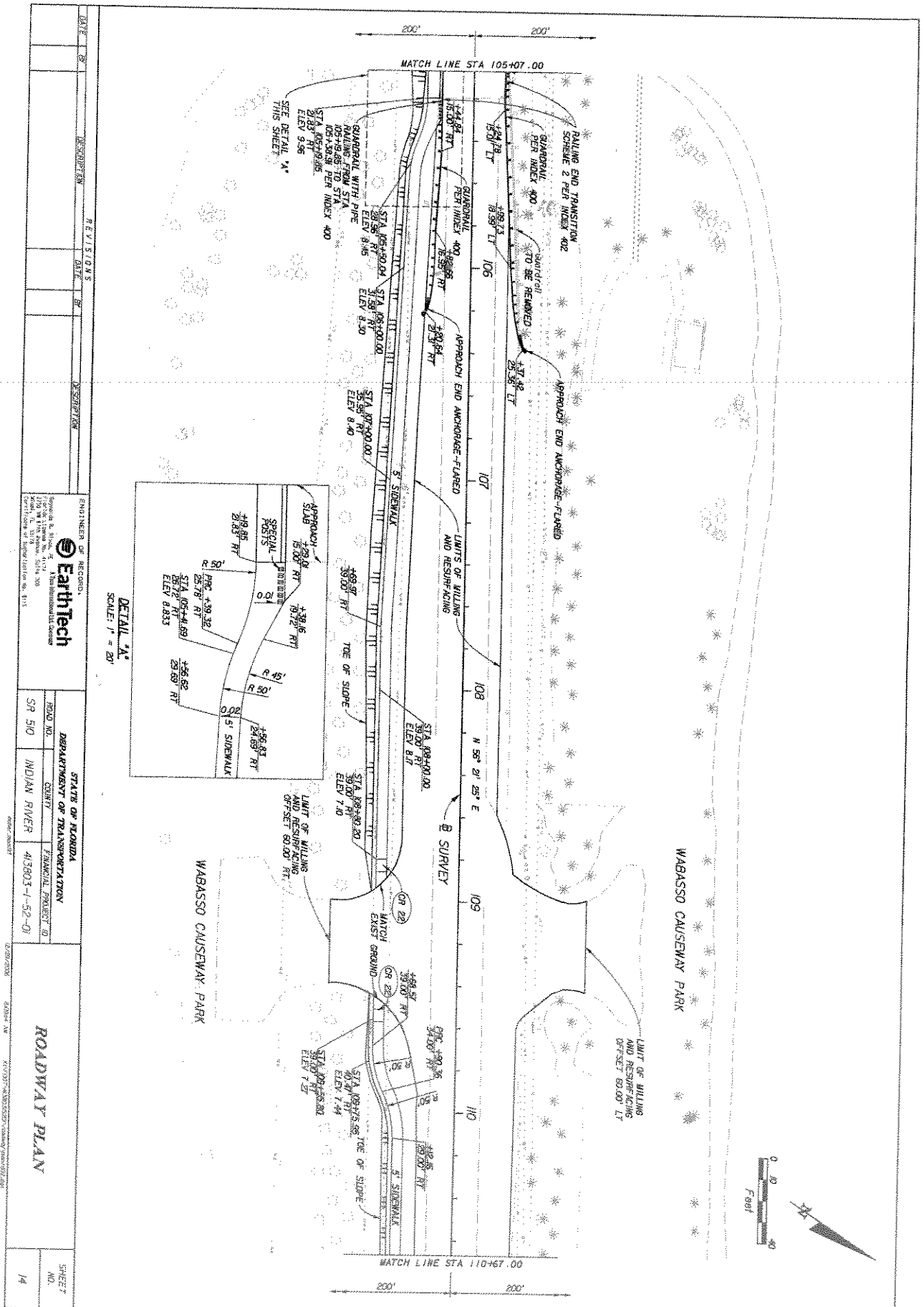


SHOULDER DETAIL
 * FOR SHOULDER SLOPE IN SUPERELEVATED AREA SEE INDEX 510

DATE	BY	REVISIONS	DESCRIPTION	ENGINEER OF RECORD	STATE OF FLORIDA	DEPARTMENT OF TRANSPORTATION	SHEET
				EarthTech	INDIAN RIVER	413803-1-52-01	9



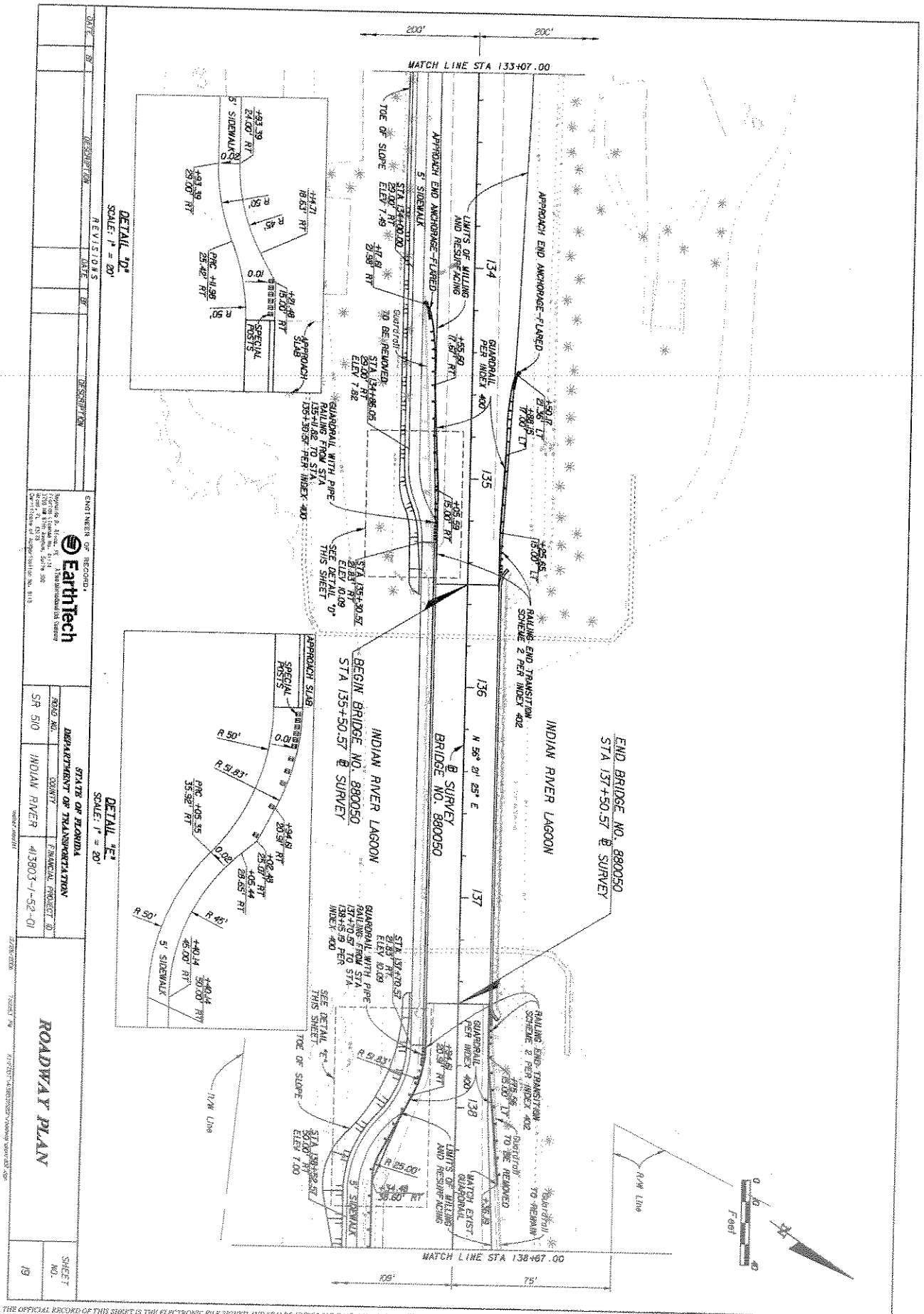
DATE	BY	REVISIONS	DESCRIPTION	STATE OF FLORIDA	DEPARTMENT OF TRANSPORTATION	FINANCIAL PROJECT ID	ROADWAY PLAN	SHEET NO.
02/19/2008	8:08:55 AM	KIPF001-4538035825	13	INDIAN RIVER	453803-1-52-01	SR 510	INDIAN RIVER	13

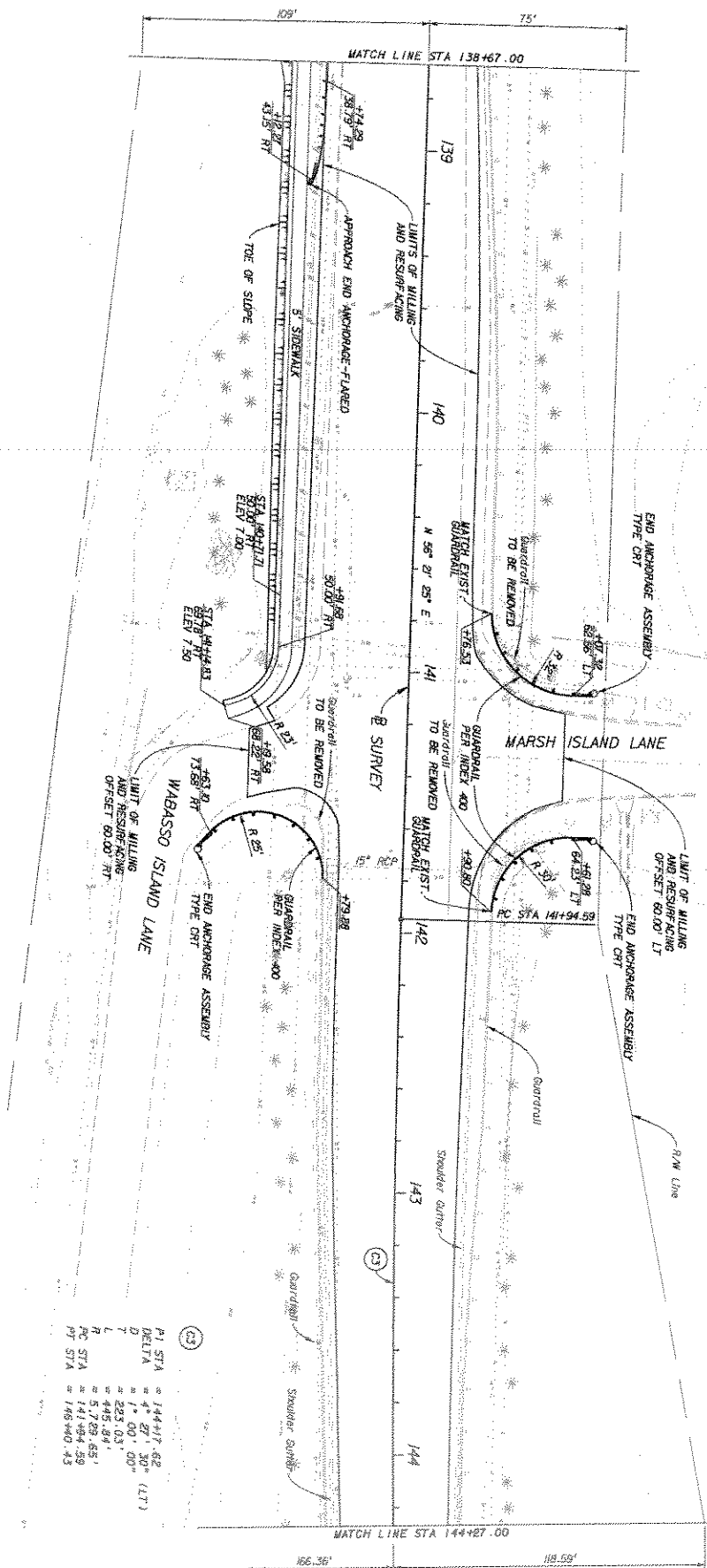



THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-21.001, F.A.C.
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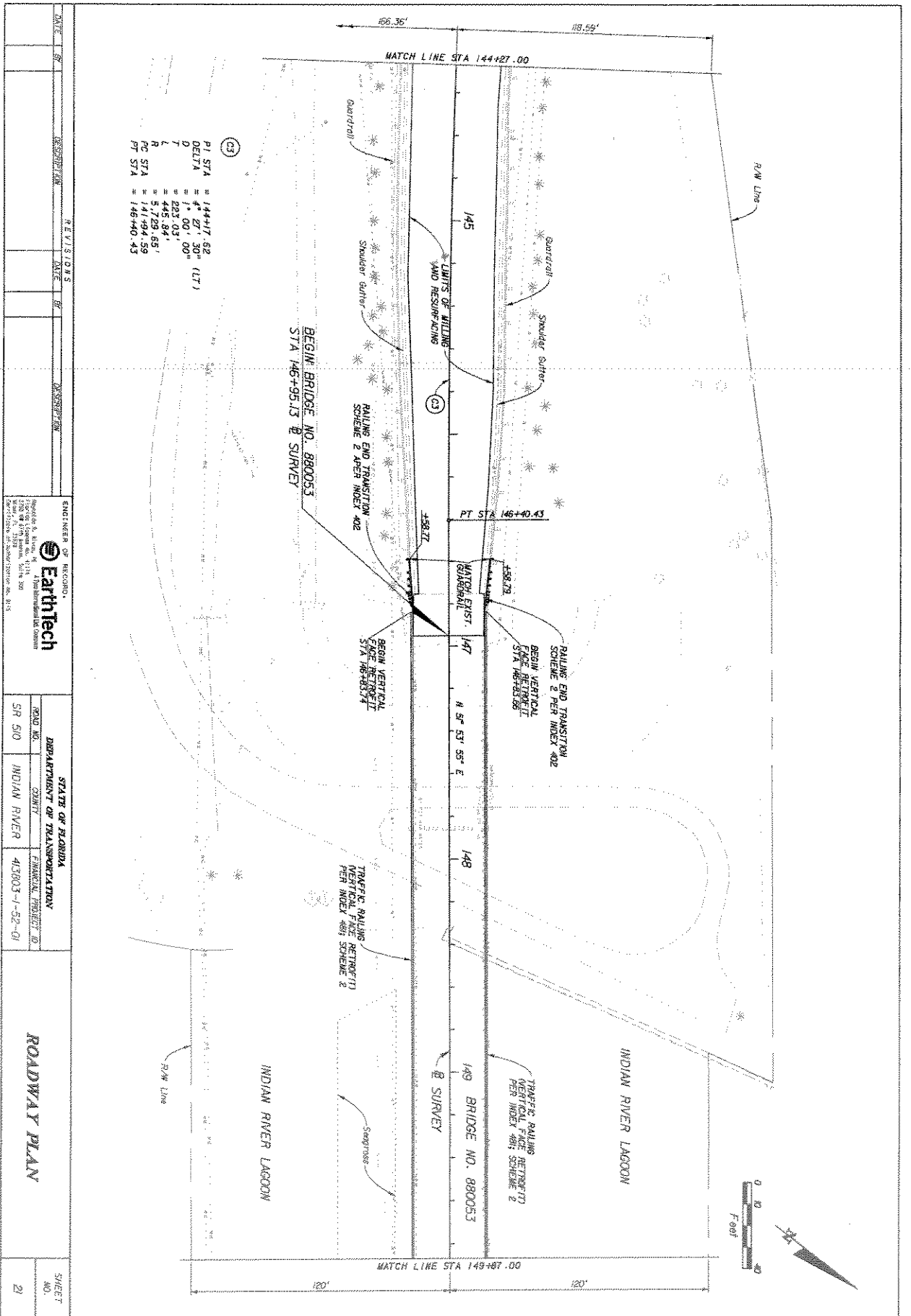
FOR PERMITTING PURPOSES ONLY

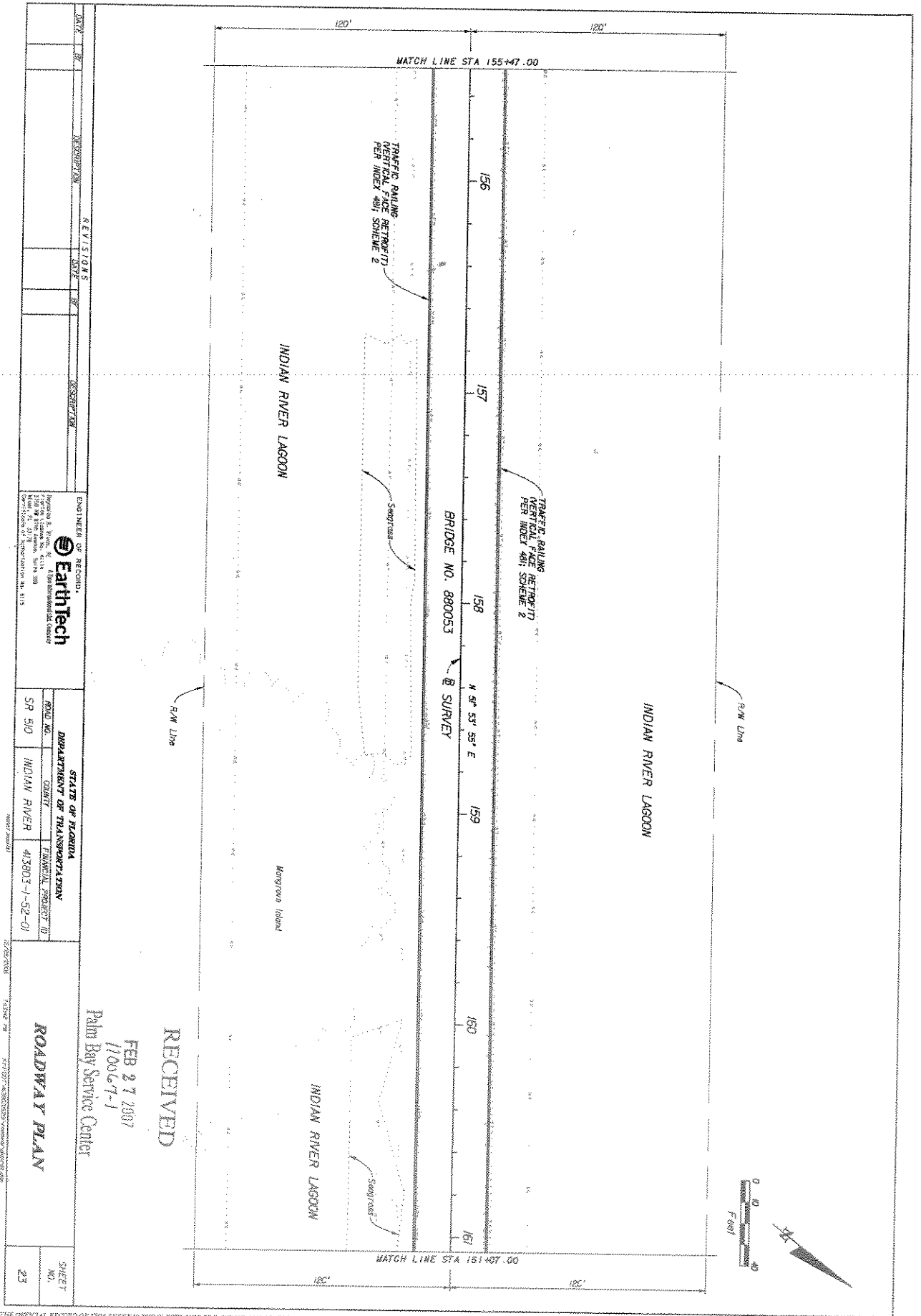
NOT FOR CONSTRUCTION
 PRELIMINARY AND SUBJECT TO CHANGE



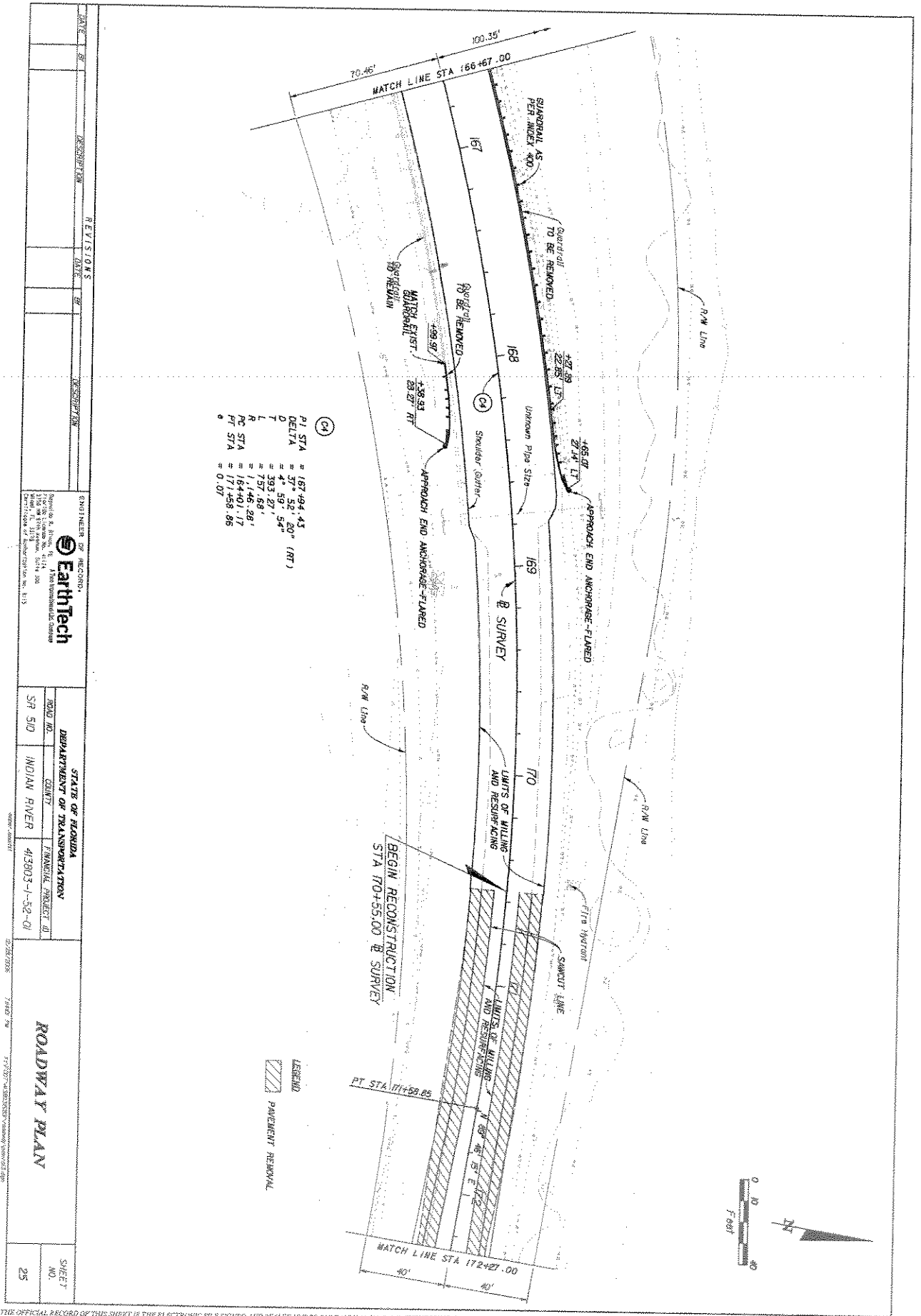


DATE		REVISIONS		ENGINEER OF RECORD		 EarthTech Stephen A. Hinkle, PE Environmental Ltd. Company 1150 W. 27th Ave., Suite 200 Miami, FL 33135 Tel.: 305.441.3113	
PROJECT		DATE		DESCRIPTION			
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				PROJECT NO.		ROADWAY PLAN SHEET NO. 20	
				COUNTY			
				FINANCIAL PROJECT NO.			
SR 510		INDIAN RIVER		413803-1-52-01			





REVISIONS		REVISIONS		REVISIONS		REVISIONS	
NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
1		2		3		4	
ENGINEER OF RECORD EarthTech <small>Engineering & Construction Services, Inc. 1000 N. US Highway No. 1, Suite 100 Fort Pierce, FL 34946-1000 Telephone: (888) 888-8888 Fax: (888) 888-8888 E-mail: info@earthtech.com</small>				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. SR 510 COUNTY INDIAN RIVER TRAVEL PROJECT ID 413803-J-52-01			
ROADWAY PLAN				SHEET NO. 23			



(C4)
 P.I. STA = 167+94.43
 DELTA = 37° 52' 20" (RT)
 D = 4° 59' 54"
 L = 393.27'
 T = 757.68'
 R.C. STA = 167+46.28'
 P.T. STA = 167+401.17
 E = 17+258.86
 Δ = 0.07

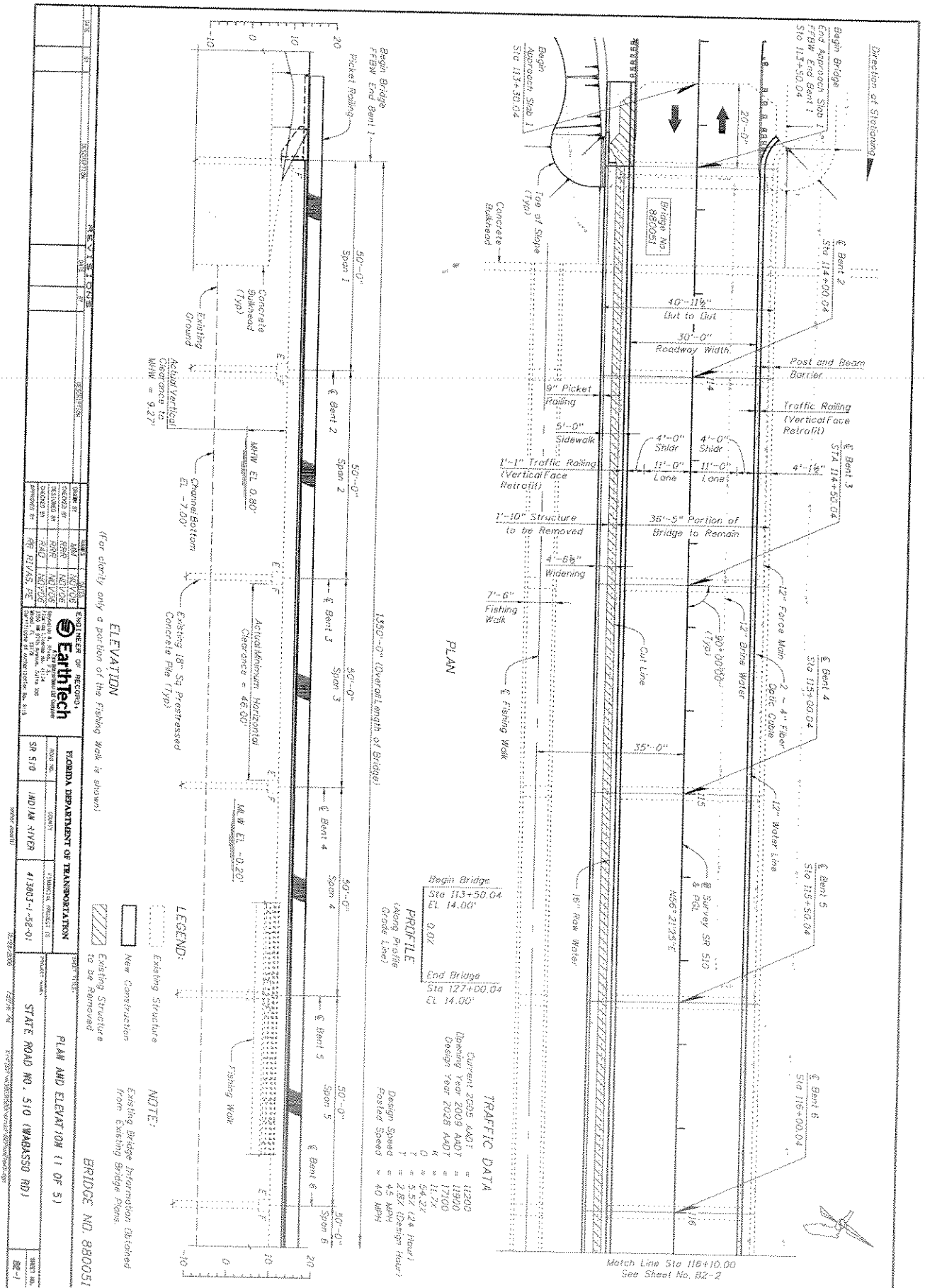
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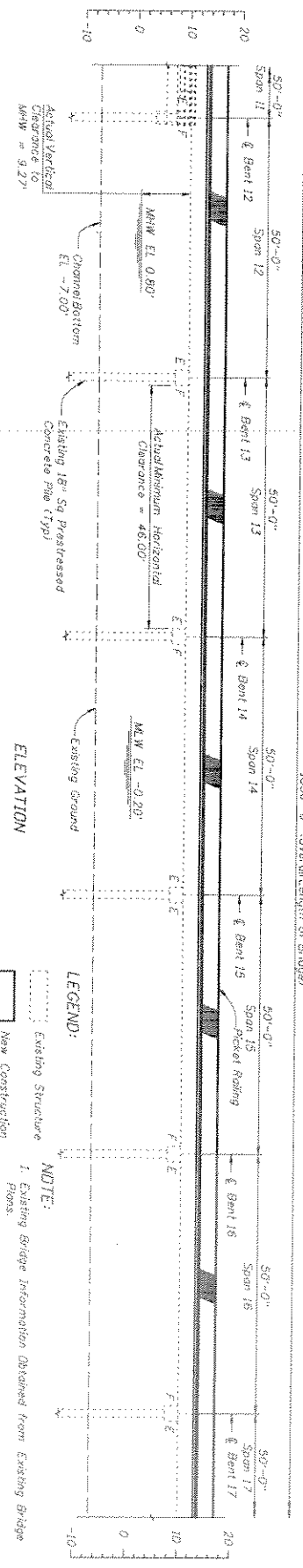
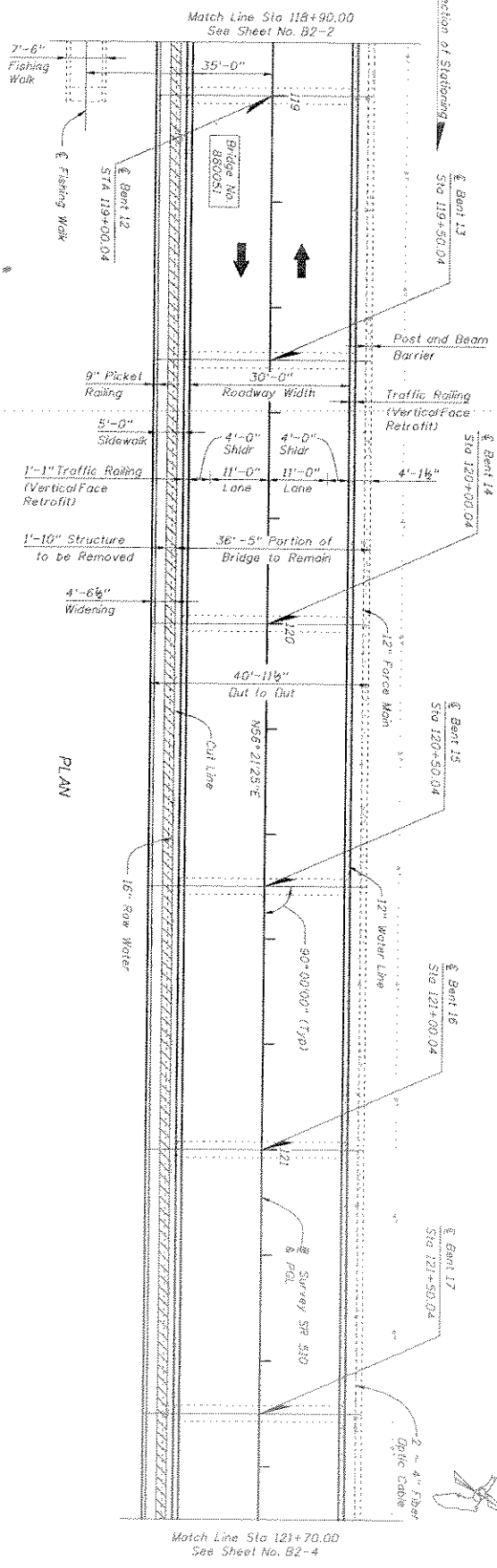
CONSULTING ENGINEER
EarthTech
 1100 N. 11th St., Suite 100
 Fort Lauderdale, FL 33304
 Tel: 954.571.1111
 Fax: 954.571.1112

STATE OF FLORIDA		DEPARTMENT OF TRANSPORTATION	
ROAD NO.		COUNTY	
SF 510		INDIAN RIVER	
PROJECT NO.	413003-1-52-Q1		

ROADWAY PLAN

SHEET NO. 25





LEGEND:

Existing Structure

New Construction

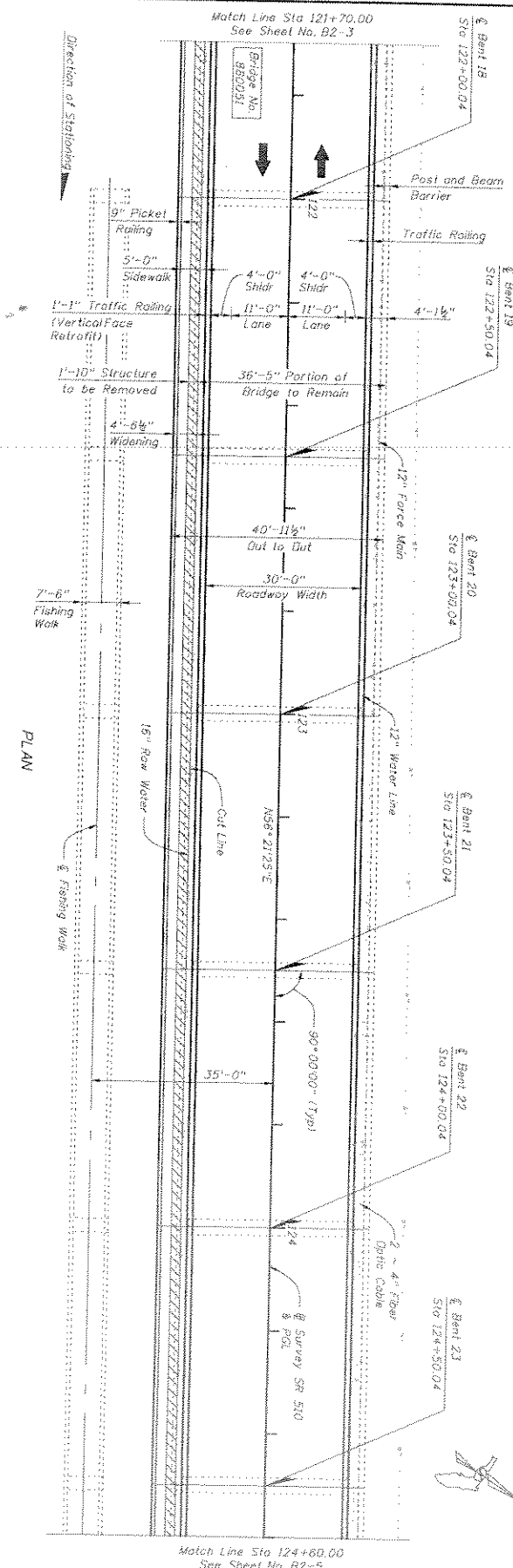
Existing Structure to be Removed

NOTE:

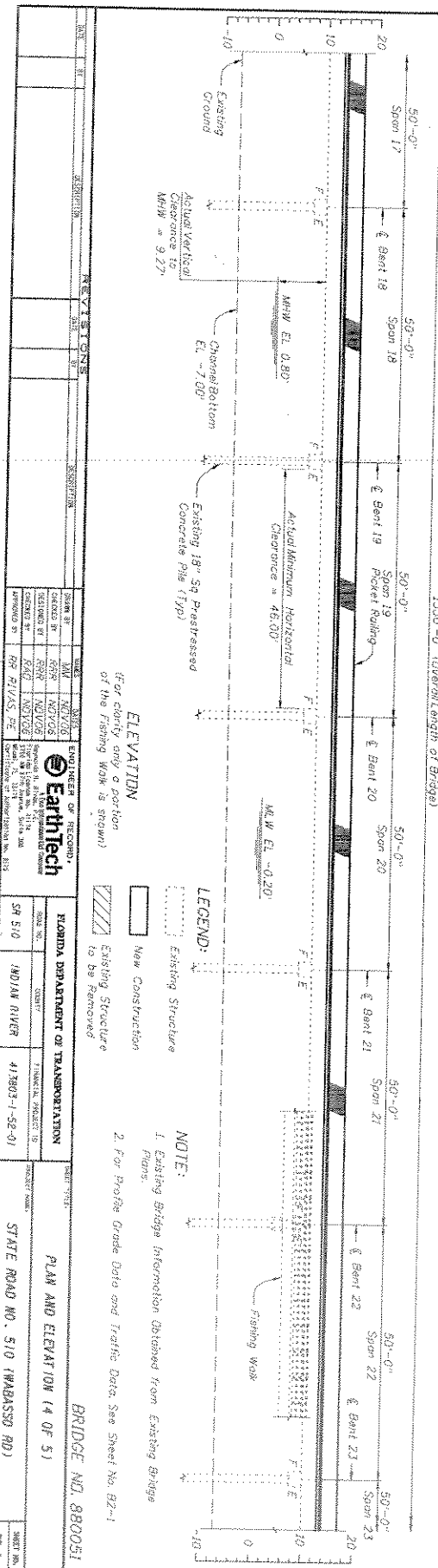
1. Existing bridge information obtained from Existing Bridge Plans.

2. For Profile Grade Data and Traffic Data, See Sheet No. B2-1.

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PLAN



ELEVATION

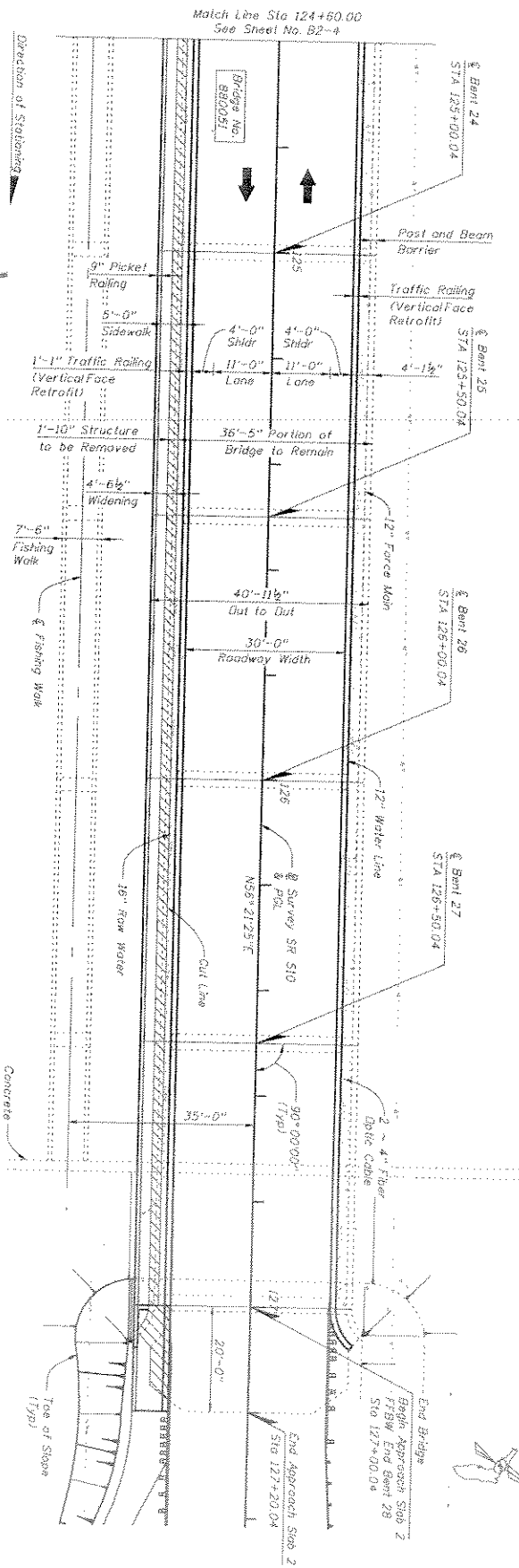
(For clarity only a portion of the fishing walk is shown)

- LEGEND:
- Existing Structure
 - New Construction
 - Existing Structure to be Removed

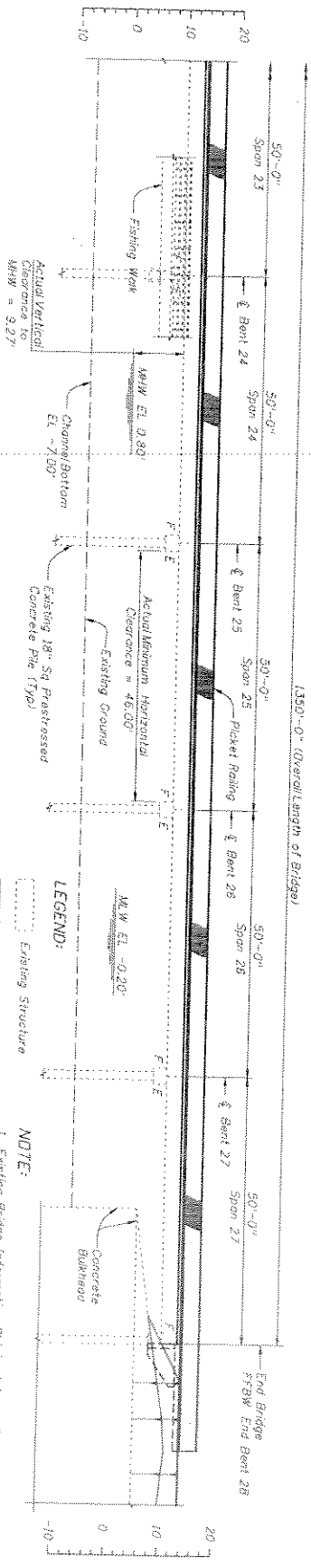
NOTE:

- Existing Bridge Information Obtained from Existing Bridge Plans.
- For Profile Grade Data and Traffic Data, See Sheet No. B2-1

REVISIONS		APPROVED		DESIGNED		CHECKED		DATE	
NO.	BY	DATE	BY	DATE	BY	DATE	BY	DATE	DATE
1	AS	01/15/2018	AS	01/15/2018	AS	01/15/2018	AS	01/15/2018	01/15/2018
<p>ENGINEER OF RECORD:</p> <p>EarthTech</p> <p>10000 N. W. 11th Ave., Suite 200</p> <p>Fort Lauderdale, FL 33304</p> <p>Phone: (954) 350-1111</p> <p>Fax: (954) 350-1112</p> <p>Website: www.earthtech.com</p>									
<p>FLORIDA DEPARTMENT OF TRANSPORTATION</p> <p>SR 510 INDIAN RIVER 41703-1-56-01</p> <p>STATE ROAD NO. 510 (WABASSO RD)</p>									
<p>BRIDGE NO. 880051</p> <p>SHEET NO. B2-4</p>									



PLAN



ELEVATION

(For clarity only a portion of the Fishing Walk is shown)

- LEGEND:**
- Existing Structure
 - New Construction
 - Existing Structure to be Removed

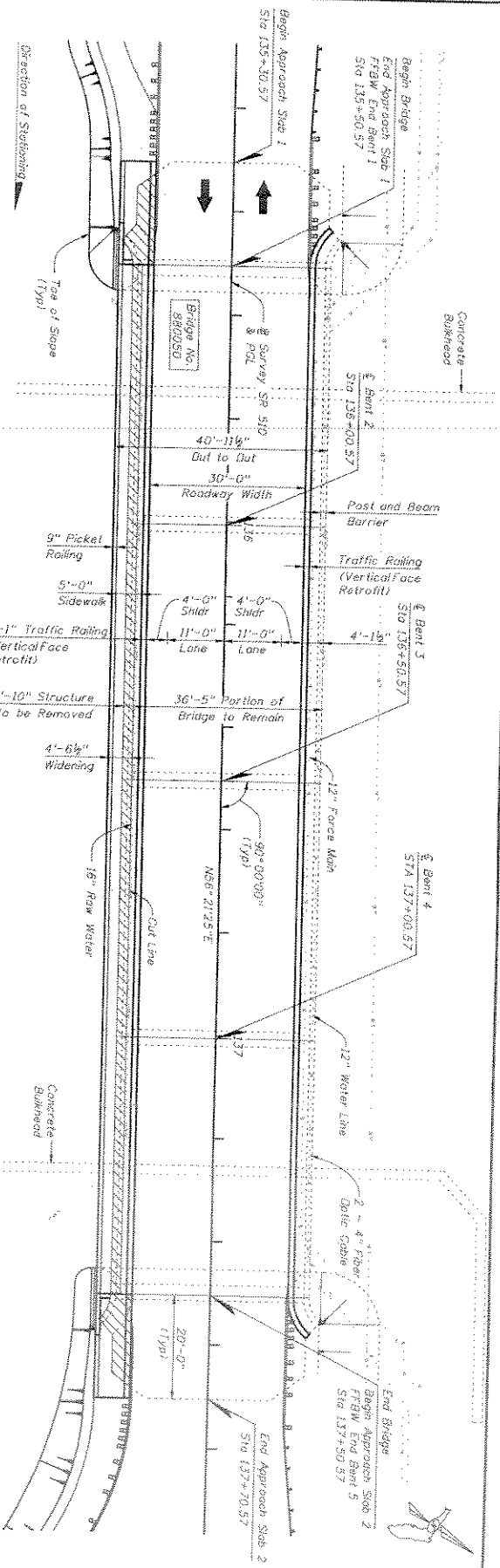
NOTE:

- Existing Bridge Information Obtained from Existing Bridge Plans.
- For Profile Grade Data and Traffic Data See Sheet No. B2-1.

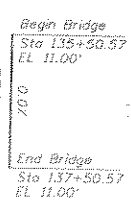
REVISIONS			
NO.	DATE	BY	DESCRIPTION
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2	06/07/20	WJ	ISSUED FOR PERMITTING
3	06/07/20	WJ	ISSUED FOR PERMITTING
4	06/07/20	WJ	ISSUED FOR PERMITTING
5	06/07/20	WJ	ISSUED FOR PERMITTING
6	06/07/20	WJ	ISSUED FOR PERMITTING
7	06/07/20	WJ	ISSUED FOR PERMITTING
8	06/07/20	WJ	ISSUED FOR PERMITTING
9	06/07/20	WJ	ISSUED FOR PERMITTING
10	06/07/20	WJ	ISSUED FOR PERMITTING

FLORIDA DEPARTMENT OF TRANSPORTATION			
PROJECT NO.	DISTRICT	PROJECT NAME	PROJECT LOCATION
SR 910	INDIAN RIVER	41303-1-52-01	STATE ROAD NO. 510 (NABASSO RD)

BRIDGE NO. 880051	
PLAN AND ELEVATION (5 OF 51)	SHEET NO.
	B2-5

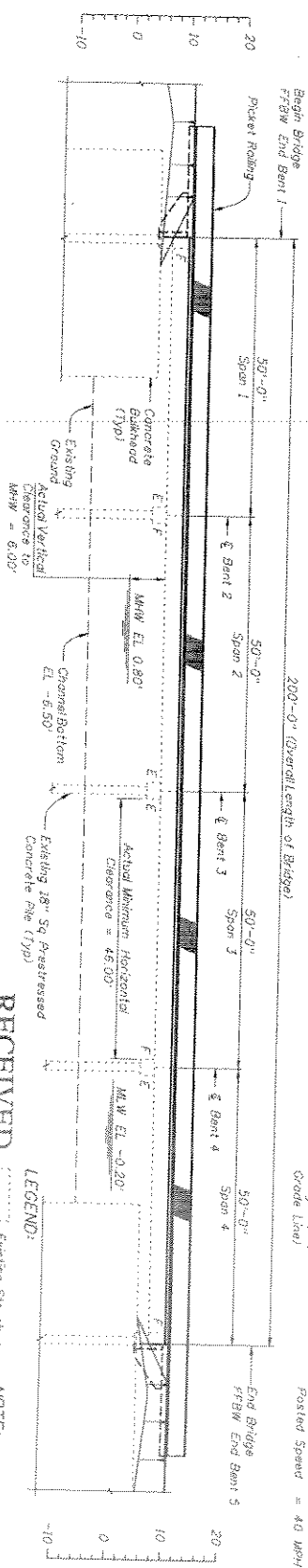


PLAN



TRAFFIC DATA

Current 2005 AADT = 11200
 Opening Year 2009 AADT = 11800
 Design Year 2020 AADT = 17100
 K = 11.72
 D = 54.27
 T = 5.62 (24 Hour)
 I = 2.87 (Design Hour)
 Design Speed = 45 MPH
 Posted Speed = 40 MPH



LEGEND:

Existing Structure

New Construction

Existing Bridge Information Derived from Existing Bridge Plans

NOTE:

ELEVATION

RECEIVED

FEB 27 2007

110067-1



FLORIDA DEPARTMENT OF TRANSPORTATION

BRIDGE NO. 880050

PLAN AND ELEVATION

STATE ROAD NO. 510 (NARASO RD)

FOR PERMITTING PURPOSES ONLY

NOT FOR CONSTRUCTION PRELIMINARY AND SUBJECT TO CHANGE